

**1/16/03**

**To: KARL FRECH**

**Re: 09/815882 US 5,684,289**

**Attached are search results.**

**No other U. S. litigation was found in searches of  
Lexis-Nexis and Questel-Orbit databases.  
Interference adverse action notice is attached.**

**If more searching or explanation is needed, please  
let me know.**

**Thanks,  
Darcy Bates  
STIC-EIC2800  
306-5419  
CP4-9C 18**

## Adverse Decisions in Interference

In the designated interferences involving the following patents, final decisions have been rendered that the respective patentees are not entitled to patents containing the claims listed.

Patent No. 5,153,678, Kazuya Ota, METHOD OF DETERMINING REGULARITY OF A PATTERN ARRAY TO ENABLE POSITIONING OF PATTERNS THEREOF RELATIVE TO A REFERENCE POSITION, Interference No. 104,656, final judgment adverse to the patentee rendered May 16, 2001, as to claims 1 and 2.

Patent No. 5,540,685, David J. Parins, Richard K. Poppe, BIPOLAR ELECTRICAL SCISSORS WITH METAL CUTTING EDGES AND SHEARING SURFACES, Interference No. 104,190, final judgment adverse to the patentees rendered February 16, 2001, as to claims 1-12.

Patent No. 7,724,144, Karl P.L. Muller, Katsuya Okumura, Theodore G. Van Kessel, PROCESS MONITORING AND THICKNESS MEASUREMENT FROM THE BACK SIDE OF A SEMICONDUCTOR BODY, Interference No. 104,707, final judgment adverse to the patentees rendered May 22, 2001, as to claims 1-24 - 32-36.

Patent No. 5,742,587, John G. Zornig, Tavit K. Ohanian, George A. Klarakis, LOAD BALANCING PORT SWITCHING HUB, Interference No. 104,680, final judgment adverse to the patentees rendered June 1, 2001, as to claims 1-17.

Patent No. 5,547,922, Qi Y. Ma, FABRICATION OF OXIDE SUPERCONDUCTOR DEVICES AND CIRCUITS BY IMPURITY ION IMPLANTATION, Interference No. 104,614, final judgment adverse to the patentee rendered May 30, 2001, as to claims 1-27.

Patent No. D. 403,501, Robert R. Winter, KEY CHAINS, Interference No. 104,531, final judgment adverse to the patentee rendered June 6, 2001, as to claims 1-6.

Patent No. 5,603,433, Albert Rene, ANTI-GRAFFITI SECURITY DEVICE FOR AEROSOL DISPENSER CANS, Interference No. 104,634, final judgment adverse to the patentee rendered June 7, 2001, as to claims 1-5.

Patent No. 5,684,289, Paul O. Detwiler, Barry M. Mergenthaler, Hong Tang, OPTICAL SCANNER HAVING ENHANCED ITEM SIDE COVERAGE, Interference No. 104,631, final judgment adverse to the patentees rendered June 7, 2001, as to claims 1-21 and 33-35.

Patent No. 5,654,545, Armin Holle, Claus Koster, Jochen Franzen, IMPROVED MASS RESOLUTION IN TIME-OF-FLIGHT MASS SPECTROMETERS WITH REFLECTORS, Interference No. 104,615, final judgment adverse to the patentees rendered June 12, 2001, as to claims 1-4, 6-9 and 14.

WANDA M.TIGNER, Sup'v. Legal  
Instruments Examiner  
Board of Patent Appeals & Interferences  
(703) 308-9797

Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility Pat nts](#) (i)

Terms: **patno=5684289** ([Edit Search](#))

550150 (08) 5684289 November 4, 1997

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

**5684289**

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[Link to Claims Section](#)

November 4, 1997

Optical scanner having enhanced item side coverage

**REEXAM-LITIGATE:**

NOTICE OF LITIGATION

NOTICE OF LITIGATION Interference No. 104,631, final judgment adverse to the patentees rendered Jun. 7, 2001, as to claims 1-21 and 33- 35. (O.G. Jul. 10, 2001)

**INVENTOR:** Detwiler, Paul O., Lawrenceville, GA; Mergenthaler, Barry M., Lawrenceville, GA; Tang, Hong, Suwanee, GA

**APPL-NO:** 550150 (08)

**FILED-DATE:** October 30, 1995

**GRANTED-DATE:** November 4, 1997

**ASSIGNEE-AT-ISSUE:** NCR Corporation, Dayton, OH

**ASSIGNEE-AFTER-ISSUE:** October 30, 1995 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., AT&T GLOBAL INFORMATION SOLUTIONS 101 W. SCHANTZ AVENUE DAYTON OHIO 45479, Reel and Frame Number: 007759/0422

April 9, 1996 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., NCR CORPORATION LAW DEPT., ECD-2 101 W. SCHANTZ AVE. DAYTON OHIO 45479, Reel and Frame Number: 008047/0429

**LEGAL-REP:** Martin, Paul W.

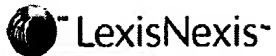
**PUB-TYPE:** November 4, 1997 - Utility Patent having no previously published pre-grant publication (A)

**PUB-COUNTRY:** United States (US)

**US-MAIN-CL:** 235#462.35

**US-ADDL-CL:** 235#383, 235#462.4

**CL:** 235

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patno=5684289

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1/16/03

US 5,684,289

09/815882

WELCOME to QUESTEL-ORBIT- Your Guide to INTELLECTUAL PROPERTY

~~Selected file: PLUSPAT~~

Search statement 3

~~US5684289/pn~~

\*\* SS 3: Results 1

Search statement 4

?prt fu legalall max

1/1 PLUSPAT - (C) QUESTEL-ORBIT

PN - US5684289 A 19971104 [US5684289]  
TI - (A) Optical scanner having enhanced item side coverage  
PA - (A) NCR CORP (US)  
IN - (A) DETWILER PAUL O (US); MERGENTHALER BARRY M (US); TANG HONG (US)  
AP - US55015095 19951030 [1995US-0550150]  
PR - US55015095 19951030 [1995US-0550150]  
IC - (A) G06K-007/10  
EC - G06K-007/10S2P4B  
ICO - S06K-007/10E1  
PCL - ORIGINAL (O) : 235462350; CROSS-REFERENCE (X) : 235383000 235462400  
DT - Corresponding document  
CT - US4097729; US4652732; US4713532; US4861973; US4939355; US4960985;  
US5019694; US5028772; US5132524; US5148009; US5206491; US5229588;  
US5459308  
STG - (A) United States patent  
AB - A dual aperture optical scanner which produces horizontal, vertical, and diagonal scan patterns. The optical scanner includes a housing having a substantially vertical surface containing a first aperture and a substantially horizontal surface containing a second aperture. A laser diode produces a laser beam. A spinner produces first, second, and third groups of scanning beams. A plurality of pattern mirrors reflects the first group of scanning beams in a substantially horizontal direction through the first aperture, the second group of scanning beams in a substantially downward diagonal direction through the first aperture, and the third group of scanning beams in a substantially vertical direction through the second aperture.

1/1 LGST - (C) LEGSTAT

PN - US 5684289 [US5684289]  
AP - US 550150/95 19951030 [1995US-0550150]  
DT - US-P  
ACT - 19951030 US/AE-A  
APPLICATION DATA (PATENT)  
{US 550150/95 19951030 [1995US-0550150]}  
- 19951030 US/AS02  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
AT&T GLOBAL INFORMATION SOLUTIONS 101 W. SCHANTZ AVENUE DAYTON, OHIO  
45479-000 \* DETWILER, PAUL O. : 19951019; MERGENTHALER, BARRY M. :  
19951019; TANG, HONG : 19951019  
- 19971104 US/A  
PATENT  
- 20010710 US/DI  
ADVERSE DECISION IN INTERFERENCE  
20010607

1/16/03

US 5,684,289

09/815882

UP - 2001-31

1/1 CRXX - (C) CLAIMS/RRX

AN - 2903028

PN - 5,684,289 A 19971104 [US5684289]

PA - NCR Corp

PT - E (Electrical)

ACT - 20010607 ADVERSE DECISION

ISSUE DATE OF O.G.: 20010710

ADVERSE DECISION NUMBER: 104631

as to claims 1-21 and 33-35.

UP - 2001-28

UACT- 2001-07-10

1/1 PAST - (C) Thomson Derwent

AN - 200128-001198

PN - 5684289 A [US5684289]

DT - A (UTILITY)

OG - 2001-07-10

CO - ADV

ACT - ADVERSE DECISION

SH - ADVERSE DECISION

Search statement 4

?file inpadoc

Selected file: INPADOC

Search statement 3

?fam us5684289/pn

1 Patent Groups

\*\* SS 3: Results 7

Search statement 4

?famstate nonstop

1/7 INPADOC - (C) INPADOC

PN - DE 69608069 C0 20000608 [DE69608069]

TI - OPTISCHER ABTASTER MIT VERBESSERTER SEITENDECKUNG EINES GEGENSTANDES

IN - DETWILER PAUL OLIVER [US]; TANG HONG [US]; MERGENTHALER BARRY MYRON [US]

PA - NCR INT INC [US]

AP - DE 69608069/96-A 19961023 [1996DE-6008069]

PR - US 550150/95-A 19951030 [1995US-0550150]

IC - G06K-007/10

1/2 LEGALI - (C) LEGSTAT

PN - DE 69608069 [DE69608069]

1/16/03

US 5,684,289

09/815882

DT - DE-P  
ACTE- 20000608 DE/REF-P  
CORRESPONDS TO  
(EP 772147 20000608 [EP-772147])  
- 20001214 DE/8373  
TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS  
BEEN PUBLISHED  
- 20010118 DE/8328  
CHANGE IN THE PERSON/NAME/ADDRESS OF THE AGENT  
V. BEZOLD & SOZIEN, 80799 MUENCHEN  
- 20010531 DE/8364 [+]  
NO OPPOSITION DURING TERM OF OPPOSITION  
UP - 2001-22

2/2 LEGALI - (C) LEGSTAT

PN - EP 772147 [EP-772147]  
AP - EP 96307661/96 19961023 [1996EP-0307661]  
DT - EP-P  
ACTE- 19961023 EP/AE-A  
EP-APPLICATION  
{EP 96307661/96 19961023 [1996EP-0307661]}  
- 19970507 EP/AK-A2 [+]  
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:  
DE FR GB  
- 19970507 EP/A2 [+]  
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT  
- 19980325 EP/AK-A3 [+]  
DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:  
DE FR GB  
- 19980325 EP/A3 [+]  
SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)  
- 19981125 EP/17P [+]  
REQUEST FOR EXAMINATION FILED  
980925  
- 19981216 EP/17Q [+]  
FIRST EXAMINATION REPORT  
981030  
- 20000503 EP/AK-B1 [+]  
DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:  
DE FR GB  
- 20000503 EP/B1 [+]  
PATENT SPECIFICATION  
- 20000608 EP/REF-P  
CORRESPONDS TO:  
(DE 69608069 20000608 [DE69608069])  
- 20000901 EP/ET [+]  
FR: TRANSLATION FILED  
- 20010425 EP/26N [+]  
NO OPPOSITION FILED  
- 20020101 EP/REG; GB/IF02 [+]  
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01  
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UP - 2002-17

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PN - DE 69608069 T2 20001214 [DE69608069]  
TI - OPTISCHER ABTASTER MIT VERBESSERTER SEITENDECKUNG EINES GEGENSTANDES  
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US 5,684,289

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[US]  
PA - NCR INT INC [US]  
AP - DE 69608069/96-A 19961023 [1996DE-6008069]  
PR - US 550150/95-A 19951030 [1995US-0550150]  
IC - G06K-007/10

1/2 LEGALI - (C) LEGSTAT

PN - DE 69608069 [DE69608069]  
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FR: TRANSLATION FILED  
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US 5,684,289

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3/7 INPADOC - (C) INPADOC

PN - EP 772147 B1 20000503 [EP-772147]  
TI - OPTICAL SCANNER HAVING ENHANCED ITEM SIDE COVERAGE  
LA - ENG  
IN - DETWILER PAUL OLIVER [US]; TANG HONG [US]; MERGENTHALER BARRY MYRON [US]  
PA - NCR INT INC [US]  
AP - EP 96307661/96-A 19961023 [1996EP-0307661]  
PR - US 550150/95-A 19951030 [1995US-0550150]  
IC - G06K-007/10  
DS - DE\* FR\* GB\*

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CORRESPONDS TO:  
(DE 69608069 20000608 [DE69608069])  
- 20000901 EP/ET [+] FR: TRANSLATION FILED  
- 20010425 EP/26N [+] NO OPPOSITION FILED  
- 20020101 EP/REG; GB/IF02 [+] GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01  
<GB>  
UP - 2002-17

4/7 INPADOC - (C) INPADOC )  
PN - EP 772147 A2 19970507 [EP-772147]  
TI - OPTICAL SCANNER HAVING ENHANCED ITEM SIDE COVERAGE  
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DS - DE\* FR\* GB\*

1/2 LEGALI - (C) LEGSTAT )  
PN - DE 69608069 [DE69608069]  
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2/2 LEGALI - (C) LEGSTAT )  
PN - EP 772147 [EP-772147]  
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EP-APPLICATION  
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DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:  
DE FR GB  
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(DE 69608069 20000608 [DE69608069])  
- 20000901 EP/ET [+]  
FR: TRANSLATION FILED  
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NO OPPOSITION FILED  
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GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01  
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5/7 INPADOC - (C) INPADOC

PN - EP 772147 A3 19980325 [EP-772147]  
TI - OPTICAL SCANNER HAVING ENHANCED ITEM SIDE COVERAGE  
LA - ENG  
IN - DETWILER PAUL OLIVER [US]; TANG HONG [US]; MERGENTHALER BARRY [US]  
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PR - US 550150/95-A 19951030 [1995US-0550150]  
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DS - DE\* FR\* GB\*

1/2 LEGALI - (C) LEGSTAT

PN - DE 69608069 [DE69608069]  
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ACTE- 20000608 DE/REF-P  
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- 20001214 DE/8373  
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- 20010531 DE/8364 [+]  
NO OPPOSITION DURING TERM OF OPPOSITION  
UP - 2001-22

2/2 LEGALI - (C) LEGSTAT

PN - EP 772147 [EP-772147]  
AP - EP 96307661/96 19961023 [1996EP-0307661]  
DT - EP-P

1/16/03

US 5,684,289

09/815882

ACTE- 19961023 EP/AE-A  
EP-APPLICATION  
{EP 96307661/96 19961023 [1996EP-0307661]}  
- 19970507 EP/AK-A2 [+]  
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT:  
DE FR GB  
- 19970507 EP/A2 [+]  
PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT  
- 19980325 EP/AK-A3 [+]  
DESIGNATED CONTRACTING STATES IN A SEARCH REPORT:  
DE FR GB  
- 19980325 EP/A3 [+]  
SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93)  
- 19981125 EP/17P [+]  
REQUEST FOR EXAMINATION FILED  
980925  
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FIRST EXAMINATION REPORT  
981030  
- 20000503 EP/AK-B1 [+]  
DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:  
DE FR GB  
- 20000503 EP/B1 [+]  
PATENT SPECIFICATION  
- 20000608 EP/REF-P  
CORRESPONDS TO:  
(DE 69608069 20000608 [DE69608069])  
- 20000901 EP/ET [+]  
FR: TRANSLATION FILED  
- 20010425 EP/26N [+]  
NO OPPOSITION FILED  
- 20020101 EP/REG; GB/IF02 [+]  
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01  
<GB>  
UP - 2002-17

6/7 INPADOC - (C) INPADOC )  
PN - JP 9167197 A2 19970624 [JP09167197]  
TI - OPTICAL SCANNER WITH SCANNING RANGE INTENSIFIED TO SIDE FACE OF ITEM  
IN - POORU ORIBAA DETOWAIRAA; Barii MAIRON MAAJIENSARAA; HON TAN  
PA - NCR INT INC  
AP - JP 286465/96-A 19961029 [1996JP-0286465]  
PR - US 550150/95-A 19951030 [1995US-0550150]  
IC - G06K-007/10

7/7 INPADOC - (C) INPADOC )  
PN - US 5684289 A 19971104 [US5684289]  
TI - OPTICAL SCANNER HAVING ENHANCED ITEM SIDE COVERAGE  
IN - DETWILER PAUL O [US]; MERGENTHALER BARRY M [US]; TANG HONG [US]  
PA - NCR CORP [US]  
AP - US 550150/95-A 19951030 [1995US-0550150]  
PR - US 550150/95-A 19951030 [1995US-0550150]  
IC - G06K-007/10

1/1 LEGALI - (C) LEGSTAT )  
PN - US 5684289 [US5684289]

1/16/03

US 5,684,289

09/815882

AP - US 550150/95 19951030 [1995US-0550150]

DT - US-P

ACTE- 19951030 US/AE-A

APPLICATION DATA (PATENT)

{US 550150/95 19951030 [1995US-0550150]}

- 19951030 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST

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45479-000 \* DETWILER, PAUL O. : 19951019; MERGENTHALER, BARRY M. :

19951019; TANG, HONG : 19951019

- 19971104 US/A

PATENT

- 20010710 US/DI

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